

imaging, the CLSM represents the best tool for such a comparison.

Other embodiments are within the following claims.

5

What is claimed is:

Sub

1 C9 1. A method of treating a subject having unwanted cell proliferation comprising:
2 inducing differentiation in a cell;
3 providing said cell with a photosensitizer (a PS); and
4 activating said PS, thereby the treating unwanted cell proliferation.

1 2. The method of claim 1, wherein, the subject is a patient having a malignant or benign
2 disorder characterized by unwanted cell proliferation.

1 3. The method of claim 1, wherein a PS is administered to the subject.

1 4. The method of claim 1, wherein a precursor of a PS is administered to the subject.

1 5. The method of claim 1, wherein the photosensitizer includes chlorin e6 or a chlorin
2 derivative.

1 6. The method of claim 1, wherein a PS is administered to the subject.

1 7. The method of claim 1, wherein a compound which causes the accumulation of a
2 PS, the formation of a PS, or is converted to a PS, in the subject's body, is administered to
3 the subject.

1 8. The method of claim 7, wherein a compound which causes the accumulation of,
2 the formation of, or which is converted to, a porphyrin, or a porphyrin precursor, is
3 administered to the subject.

1 9. The method of claim 1, wherein the PS is coupled to a targeting moiety.

1 10. The method of claim 1, wherein the subject has and a PS and a retinoic acid, are
2 administered to the subject.

1 11. The method of claim 1, wherein the subject has a malignancy of breast epithelial
2 cells, and a PS and an antidiabetic compound, or a ligand for a transcription factor is
3 administered to the subject.

1 12. The method of claim 1, wherein the subject has an unwanted proliferation of
2 prostate cells prostate carcinoma, and a PS and a hormonal agent, or an agent which
3 increases levels of retinoic acid are administered to the subject.

Sub A3
1 13. The method of claim 1, wherein a tumor cell is induced to differentiate and the
2 PS is supplied such that it is present while the cells are in a state of induced differentiation.

Sub C12
1 14. A method of detecting a cell characterized as having unwanted proliferation
2 comprising:
3 providing a differentiating agent to a cell of a subject;
4 providing the cell with a light emitting agent;
5 activating said agent; and
6 detecting a difference between the cell and a control cell, thereby detecting the
7 presence of a disorder characterized by unwanted cell proliferation.
8

1 15. The method of claim 14, wherein the light emitting agent is a fluorescent
2 compound or a PS.

Sub A4
1 16. The method of claim 14, wherein, the photosensitizer includes chlorin e6 or a
2 chlorin derivative.

1 17. The method of claim 1, wherein the PS is coupled to a targeting moiety.

add C13 →